BUILDING AND ENVIRONMENT—VOLUME CONTENTS

VOLUME 41, 2006

NUMBER 1

Y.-H. Chiang, E.W.-L. Cheng and **B.-S. Tang**	1	Examining repercussions of consumptions and inputs placed on the construction sector by use of I–O tables and DEA
M. Bojić and **S. Kostić**	12	Application of COMIS software for ventilation study in a typical building in Serbia
T. Hirano, S. Kato, S. Murakami, T. Ikaga and **Y. Shiraishi**	21	A study on a porous residential building model in hot and humid regions: Part 1—the natural ventilation performance and the cooling load reduction effect of the building model
T. Hirano, S. Kato, S. Murakami, T. Ikaga, Y. Shiraishi and **H. Uehara**	33	A study on a porous residential building model in hot and humid regions part 2—reducing the cooling load by component-scale voids and the CO_2 emission reduction effect of the building model
A. Sağsöz, Ö.İ. Tuluk and **S. Özgen**	45	Influences of different ages and cultures on each other from architectural point of view: Examination of historical buildings in Trabzon/Turkiye
J.-H. Lim, J.-H. Jo, Y.-Y. Kim, M.-S. Yeo and **K.-W. Kim**	60	Application of the control methods for radiant floor cooling system in residential buildings
	74	Calendar

NUMBER 2

K.J. Kontoleon and **D.K. Bikas**	75	The influence of the zone's indoor temperature settings on the cooling/heating loads for fixed and controlled ventilation
M.T. Parra, J.M. Villafruela, F. Castro and **C. Méndez**	87	Numerical and experimental analysis of different ventilation systems in deep mines
F. Ali-Toudert and **H. Mayer**	94	Numerical study on the effects of aspect ratio and orientation of an urban street canyon on outdoor thermal comfort in hot and dry climate
O. Aydın	109	Conjugate heat transfer analysis of double pane windows
Y. Lin, D. Chen and **W. Chen**	117	The significance of mesopic visual performance and its use in developing a mesopic photometry system
G.B. Wright, L.B. Jack and **J.A. Swaffield**	126	Investigation and numerical modelling of roof drainage systems under extreme events
F. Gugliermetti and **F. Bisegna**	136	Daylighting with external shading devices: design and simulation algorithms
A. Sezer, G. İnan, H.R. Yılmaz and **K. Ramyar**	150	Utilization of a very high lime fly ash for improvement of Izmir clay
J. Richmond-Bryant, A.D. Eisner, L.A. Brixey and **R.W. Wiener**	156	Short-term dispersion of indoor aerosols: can it be assumed the room is well mixed?
V.W.Y. Tam, C.M. Tam, S.X. Zeng and **K.K. Chan**	164	Environmental performance measurement indicators in construction

J.A. González, M.L.G. Docampo and **I.C. Guerrero** 174 The application of new technologies in construction: Inventory and characterisation of rural constructions using the Ikonos satellite image

T.M. Lawrence and **J.E. Braun** 184 Evaluation of simplified models for predicting CO_2 concentrations in small commercial buildings

A. Amirjanov and **K. Sobolev** 195 Genetic algorithm for cost optimization of modified multi-component binders

E. Ghisi, A. Montibeller and **R.W. Schmidt** 204 Potential for potable water savings by using rainwater: An analysis over 62 cities in southern Brazil

N.K. Fong, L.Y. Wong and **L.T. Wong** 211 Fire services installation related contributors of construction delays

P.B. Lourenço, E. Luso and **M.G. Almeida** 223 Defects and moisture problems in buildings from historical city centres: a case study in Portugal

NUMBER 3

F. Al-Ajmi, D.L. Loveday and **V.I. Hanby** 235 The cooling potential of earth–air heat exchangers for domestic buildings in a desert climate

A.S. Muhaisen and **M.B. Gadi** 245 Effect of courtyard proportions on solar heat gain and energy requirement in the temperate climate of Rome

Z. Lin, F. Jiang, T.T. Chow, C.F. Tsang and **W.Z. Lu** 254 CFD analysis of ventilation effectiveness in a public transport interchange

J.M.L. Reis and **A.J.M. Ferreira** 262 The effects of atmospheric exposure on the fracture properties of polymer concrete

R. Tang, I.A. Meir and **T. Wu** 268 Thermal performance of non air-conditioned buildings with vaulted roofs in comparison with flat roofs

D. Jain 277 Modeling of solar passive techniques for roof cooling in arid regions

J. Abanto and **M. Reggio** 288 Numerical investigation of the flow in a kitchen hood system

E.A. Olanipekun, K.O. Olusola and **O. Ata** 297 A comparative study of concrete properties using coconut shell and palm kernel shell as coarse aggregates

K.O. Olusola, E.A. Olanipekun, O. Ata and **O.T. Olateju** 302 Studies on termite hill and lime as partial replacement for cement in plastering

F. Collet, L. Serres, J. Miriel and **M. Bart** 307 Study of thermal behaviour of clay wall facing south

M.S. Zuraimi, C.-A. Roulet, K.W. Tham, S.C. Sekhar, K.W. David Cheong, N.H. Wong and **K.H. Lee** 316 A comparative study of VOCs in Singapore and European office buildings

Y. Yuan, B. Cheng, J. Mao and **Y. Du** 330 Effect of the thermal conductivity of building materials on the steady-state thermal behaviour of underground building envelopes

S. Lee, S. Kim, S.-h. Kim, Y. Park and **J.-i. Park** 336 Experimental research on performance of the solar heat gain (SHG) insulation panel

L. Shashua-Bar, M.E. Hoffman and **Y. Tzamir** 343 Integrated thermal effects of generic built forms and vegetation on the UCL microclimate

A.-S. Choi, Y.-O. Kim, E.-S. Oh and **Y.-S. Kim** 355 Application of the space syntax theory to quantitative street lighting design

B.H. Goh 367 Creating intelligent enterprises in the Singapore construction industry to support a knowledge economy

E.D. Gezer, U. Yildiz, S. Yildiz, E. Dİzman and **A. Temiz** 380 Removal copper, chromium and arsenic from CCA-treated yellow pine by oleic acid

B. İpekoğlu 386 An architectural evaluation method for conservation of traditional dwellings

NUMBER 4

C. Ghiaus, F. Allard, M. Santamouris, C. Georgakis and **F. Nicol** 395 Urban environment influence on natural ventilation potential

F.W. Yu and **K.T. Chan** 407 Modelling of the coefficient of performance of an air-cooled screw chiller with variable speed condenser fans

Q. Ouyang, W. Dai, H. Li and **Y. Zhu** 418 Study on dynamic characteristics of natural and mechanical wind in built environment using spectral analysis

J.C. Berndtsson 427 Experiences from the implementation of a urine separation system: Goals, planning, reality

K.T.W. Yiu and **S.O. Cheung** 438 A catastrophe model of construction conflict behavior

M. De Grassi, A. Carbonari and **G. Palomba** 448 A statistical approach for the evaluation of the thermal behavior of dry assembled PCM containing walls

Y. Bai, G.E. Thompson and **S. Martinez-Ramirez** 486 Effects of NO_2 on oxidation mechanisms of atmospheric pollutant SO_2 over Baumberger sandstone

A.M. Odeh, W. Abu-El-Sha'r and **R. Al-Ruzouq** 492 Gas transport through concrete slabs

A.M. Turk 501 ISO 9000 in construction: An examination of its application in Turkey

F. Demirel 512 Noise caused by the usage of water piping in apartment building structures

N. Sahal 520 Proposed approach for defining climate regions for Turkey based on annual driving rain index and heating degree-days for building envelope design

S. Hiziroglu and **P. Kosonkorn** 527 Evaluation of surface roughness of Thai medium density fiberboard (MDF)

M. Gormley and **D.P. Campbell** 534 The transport of discrete solids in above ground near horizontal drainage pipes: A wave speed dependent model

NUMBER 5

W.R. Chang 549 Effect of porous hedge on cross ventilation of a residential building

S. Van Buggenhout, T. Zerihun Desta, A. Van Brecht, E. Vranken, S. Quanten, W. Van Malcot and **D. Berckmans**	557	Data-based mechanistic modelling approach to determine the age of air in a ventilated space
C.B. Huang and **C.S. Lin**	568	Modeling of aerosol dynamics along a vertical flat plate
D.H.W. Li, G.H.W. Cheung and **C.C.S. Lau**	578	A simplified procedure for determining indoor daylight illuminance using daylight coefficient concept
P.T. Tsilingiris	590	The influence of heat capacity and its spatial distribution on the transient wall thermal behavior under the effect of harmonically time-varying driving forces
M. Egemen and **A.N. Mohamed**	602	Clients' needs, wants and expectations from contractors and approach to the concept of repetitive works in the Northern Cyprus construction market
H. Asan	615	Numerical computation of time lags and decrement factors for different building materials
E.K. Zavadskas and **T. Vilutienė**	621	A multiple criteria evaluation of multi-family apartment block's maintenance contractors: I—Model for maintenance contractor evaluation and the determination of its selection criteria
M.J. Terro	633	Properties of concrete made with recycled crushed glass at elevated temperatures
G. Nemli and **H. Kalaycıoğlu**	640	The resistances of several types of overlaying materials against cigarette burn, scratch, and abrasion
M.W. Lin, J.B. Berman, M. Khoshbakht, C.A. Feickert and **A.O. Abatan**	646	Modeling of moisture migration in an FRP reinforced masonry structure
P. Sinivuori and **A. Saari**	657	MIPS analysis of natural resource consumption in two university buildings
Z. Zhang, X. Wu, X. Yang and **Y. Zhu**	669	BEPAS—a life cycle building environmental performance assessment model
M.R. Al-Agha	676	Weathering of building stones and its relationship to the sustainable management of the aggregate resources in Gaza Strip, Palestine
W. Renping and **C. Zhenyu**	687	An ecological assessment of the vernacular architecture and of its embodied energy in Yunnan, China

NUMBER 6

L. Ozgener, A. Hepbasli and **I. Dincer**	699	Effect of reference state on the performance of energy and exergy evaluation of geothermal district heating systems: Balcova example
B. Zhao and **J. Chen**	710	Numerical analysis of particle deposition in ventilation duct
S.R. Lee and **H.S. Ryou**	719	A numerical study on smoke movement in longitudinal ventilation tunnel fires for different aspect ratio
N.H. Wong, J. Song and **A.D. Istiadji**	726	A study of the effectiveness of mechanical ventilation systems of a hawker center in Singapore using CFD simulations

K.C. Karki and **S.V. Patankar** 734 Airflow distribution through perforated tiles in raised-floor data centers

H.S.L.C. Hens 745 The vapor diffusion resistance and air permeance of masonry and roofing systems

H. Kalaycioglu and **S. Hiziroglu** 756 Evaluation of surface characteristics of laminated flooring

N.F. Ortega and **T. González Limón** 763 A study of the volume variations in reinforced masonry structures exposed to different degrees of humidity

G. Nemli and **İ. Öztürk** 770 Influences of some factors on the formaldehyde content of particleboard

M. Tural and **C. Yener** 775 Lighting monuments: Reflections on outdoor lighting and environmental appraisal

D. Pearlmutter, P. Berliner and **E. Shaviv** 783 Physical modeling of pedestrian energy exchange within the urban canopy

H. Müderrisoğlu, E. Eroğlu, Ş. Özkan and **K. Ak** 796 Visual perception of tree forms

S.A. Aiban, H.M. Al-Ahmadi, I.M. Asi, Z.U. Siddique and **O.S.B. Al-Amoudi** 807 Effect of geotextile and cement on the performance of sabkha subgrade

L. Agulló, A. Aguado and **T. Garcia** 821 Study of the use of paper manufacturing waste in plaster composite mixtures

C. Liu and **G. Ahmadi** 828 Transport and deposition of particles near a building model

A. Everest and **L. Seyhan** 837 Investigations of basic soil parameters in mersin: Kozlar high plateau of south Turkey

NUMBER 7

A. Shukla, G.N. Tiwari and **M.S. Sodha** 843 Thermal modeling for greenhouse heating by using thermal curtain and an earth–air heat exchanger

J.A. Khan, C.E. Feigley, E. Lee, M.R. Ahmed and **S. Tamanna** 851 Effects of inlet and exhaust locations and emitted gas density on indoor air contaminant concentrations

B. Kendirli 864 Structural analysis of greenhouses: A case study in Turkey

D. Toksoy, G. Çolakoğlu, I. Aydin, S. Çolak and **C. Demirkir** 872 Technological and economic comparison of the usage of beech and alder wood in plywood and laminated veneer lumber manufacturing

K.W. Mui and **W.T. Chan** 877 Building calibration for IAQ management

N. Ayrilmis, S. Korkut, E. Tanritanir, J.E. Winandy and **S. Hiziroglu** 887 Effect of various fire retardants on surface roughness of plywood

D. Infield, U. Eicker, V. Fux, L. Mei and **J. Schumacher** 893 A simplified approach to thermal performance calculation for building integrated mechanically ventilated PV facades

M.J. González and **J. García Navarro** 902 Assessment of the decrease of CO_2 emissions in the construction field through the selection of materials: Practical case study of three houses of low environmental impact

A. Temiz, U.C. Yildiz and **T. Nilsson**	910	Comparison of copper emission rates from wood treated with different preservatives to the environment
X.-H. Jin and **F.Y.Y. Ling**	915	Key relationship-based determinants of project performance in China
C. Crouzeix, J.-L. Le Mouël, F. Perrier and **P. Richon**	926	Thermal stratification induced by heating in a non-adiabatic context
L. Gustavsson and **R. Sathre**	940	Variability in energy and carbon dioxide balances of wood and concrete building materials
O. Trocónis de Rincón	952	Durability of concrete structures: DURACON, an iberoamerican project. Preliminary results
J.-H. Jeong and **K.-H. Lee**	963	The physical environment in museums and its effects on visitors' satisfaction
W.K. Chow and **W.Y. Hung**	970	Effect of cavity depth on smoke spreading of double-skin façade

NUMBER 8

F.W. Yu and **K.T. Chan**	981	Life cycle analysis of enhanced condenser features for air-cooled chillers serving air-conditioned buildings
X. Wang, X. Bi, D. Chen, G. Sheng and **J. Fu**	992	Hospital indoor respirable particles and carbonaceous composition
Lollini, Barozzi, Fasano, Meroni and **Zinzi**	1001	Optimisation of opaque components of the building envelope. Energy, economic and environmental issues
J. Virta, S. Koponen and **I. Absetz**	1014	Measurement of swelling stresses in spruce (*Picea abies*) samples
C. Thormark	1019	The effect of material choice on the total energy need and recycling potential of a building
I. Usta	1027	Amenability of European silver fir (*Abies alba* Mill.) to preservative treatment by the full-cell process in longitudinal, tangential, radial and triplex flow pathways on the base of wood -drying
Z. Wang	1034	A field study of the thermal comfort in residential buildings in Harbin
N.T. Arslan and **M. Ökmen**	1040	The economical and international dimensions of the environmental problems, environmental problems in the Black Sea region and the role of the voluntary organizations
A.S. Muhaisen and **M. B Gadi**	1050	Shading performance of polygonal courtyard forms
G. Alfano, C. Chiancarella, E. Cirillo, I. Fato and **F. Martellotta**	1060	Long-term performance of chemical damp-proof courses: Twelve years of laboratory testing
C. Basyigit, I. Akkurt, R. Altindag, S. Kilincarslan, A. Akkurt, B. Mavi and **R. Karaguzel**	1070	The effect of freezing–thawing (F–T) cycles on the radiation shielding properties of concretes
M. Kilic, S. Hiziroglu and **E. Burdurlu**	1074	Effect of machining on surface roughness of wood

A. Balanli, A. Ozturk, Z. Karabiber, R. Unver, G. Gedik, G. Yavuz and **M. Vural**	1079	An examination and evaluation of YTU library and documentation building in terms of building biology
N. Cosgun and **T. Esin**	1099	A study regarding the environmental management system of ready mixed concrete production in Turkey
J. Wong and **H. Li**	1106	Development of a conceptual model for the selection of intelligent building systems
R. Demirboğa and **R. Gül**	1124	Production of high strength concrete by use of industrial by-products
C.E. Ochoa and **I.G. Capeluto**	1128	Evaluating visual comfort and performance of three natural lighting systems for deep office buildings in highly luminous climates

NUMBER 9

Z. Li, W. Chen, S. Deng and **Z. Lin**	1137	The characteristics of space cooling load and indoor humidity control for residences in the subtropics
R. Luo and **J.L. Niu**	1148	Determining diffusion and partition coefficients of VOCs in cement using one FLEC
K.W.D. Cheong and **S.Y. Phua**	1161	Development of ventilation design strategy for effective removal of pollutant in the isolation room of a hospital
A. Stamou and **I. Katsiris**	1171	Verification of a CFD model for indoor airflow and heat transfer
B. Blocken and **J. Carmeliet**	1182	On the validity of the cosine projection in wind-driven rain calculations on buildings
G.R. Hunt and **N.B. Kaye**	1190	Pollutant flushing with natural displacement ventilation
W.K. Chow, L. Yi, C.L. Shi, Y.Z. Li and **R. Huo**	1198	Mass flow rates across layer interface in a two-layer zone model in an atrium with mechanical exhaust system
T.X. Qin, Y.C. Guo, C.K. Chan and **W.Y. Lin**	1203	Numerical investigation of smoke exhaust mechanism in a gymnasium under fire scenarios
N. Gao and **J. Niu**	1214	Transient CFD simulation of the respiration process and inter-person exposure assessment
N. Arıoglu and **S. Acun**	1223	A research about a method for restoration of traditional lime mortars and plasters: A staging system approach
F.J.S. de la Flor, J.M.S. Lissén and **S.Á. Domínguez**	1231	A new methodology towards determining building performance under modified outdoor conditions
M.A. Mannan, J. Alexander, C. Ganapathy and **D.C.L. Teo**	1239	Quality improvement of oil palm shell (OPS) as coarse aggregate in lightweight concrete
Y. Al-Ghuraiz and **A. Enshassi**	1243	Customers' satisfaction with water supply service in the Gaza Strip
S. Kaseb and **M.F. El-Refaie**	1251	Sunlit fraction of vertical slant windowpanes
M. Zinzi	1262	Office worker preferences of electrochromic windows: a pilot study

I. Demir 1274 An investigation on the production of construction brick with processed waste tea

G.B. Wright, S. Arthur and **J.A. Swaffield** 1279 Numerical simulation of the dynamic operation of multi-outlet siphonic roof drainage systems

NUMBER 10

H. Tan and **A. Dexter** 1291 Estimating airflow rates in air-handling units from actuator control signals

N. Simões and **A. Tadeu** 1299 Transient conduction and convection heat transfer across a multi-layer floor subjected to multiple heat sources

I. Aydin, G. Colakoglu, S. Colak and **C. Demirkir** 1311 Effects of moisture content on formaldehyde emission and mechanical properties of plywood

F. Li, J. Niu and **L. Zhang** 1317 A physically-based model for prediction of VOCs emissions from paint applied to an absorptive substrate

E. Johansson 1326 Influence of urban geometry on outdoor thermal comfort in a hot dry climate: A study in Fez, Morocco

S.R. Livermore and **A.W. Woods** 1339 Natural ventilation of multiple storey buildings: The use of stacks for secondary ventilation

X. Xiaomin, H. Zhen and **W. Jiasong** 1352 The impact of urban street layout on local atmospheric environment

R.G. de Souza, L. Robledo, F.O.R. Pereira and **A. Soler** 1364 Evaluation of global luminous efficacy models for Florianópolis, Brazil

F. Sandrolini and **E. Franzoni** 1372 An operative protocol for reliable measurements of moisture in porous materials of ancient buildings

W.C. Tang, R.V. Balendran, A. Nadeem and **H.Y. Leung** 1381 Flexural strengthening of reinforced lightweight polystyrene aggregate concrete beams with near-surface mounted GFRP bars

C.A. Issa and **A. Nasr** 1394 An experimental study of welded splices of reinforcing bars

G. Arslan, M. Tuncan, M.T. Birgonul and **I. Dikmen** 1406 E-bidding proposal preparation system for construction projects

Z. Li 1414 A new life cycle impact assessment approach for buildings

H.-G. Kwak and **J.-K. Kim** 1423 Time-dependent analysis of RC frame structures considering construction sequences

J.A. Swaffield 1435 Sealed building drainage and vent systems—an application of active air pressure transient control and suppression

J.-S. Lee and **H.-Y. Moon** 1447 Salinity distribution of seashore concrete structures in Korea

NUMBER 11

M. Nikolopoulou and **S. Lykoudis** 1455 Thermal comfort in outdoor urban spaces: Analysis across different European countries

F.-C. Tsai and **R.-H. Hsieh**	1471	Oblique effects on the capture ability of a hood under crosswind environments — numerical method
G. Zhang, J. Song, J. Yang and **X. Liu**	1478	Performance of mortar and concrete made with a fine aggregate of desert sand
J. Fang, J. Jie, Y. Hong-Yong and **Z. Yong-Ming**	1482	Early fire smoke movements and detection in high large volume spaces
E. Tanritanir, S. Hiziroglu and **N. As**	1494	Effect of steaming time on surface roughness of beech veneer
E. Öcal, E.L. Oral and **E. Erdis**	1498	Crisis management in Turkish construction industry
Z.F. Tian, J.Y. Tu, G.H. Yeoh and **R.K.K. Yuen**	1504	On the numerical study of contaminant particle concentration in indoor airflow
K.W. Mui, L.T. Wong and **W.L. Ho**	1515	Evaluation on sampling point densities for assessing indoor air quality
W. Hanqing, H. Chunhua, L. Zhiqiang, T. Guangfa, L. Yingyun and **W. Zhiyong**	1522	Dynamic evaluation of thermal comfort environment of air-conditioned buildings
K.W.D. Cheong, W.J. Yu, K.W. Tham, S.C. Sekhar and **R. Kosonen**	1530	A study of perceived air quality and sick building syndrome in a field environment chamber served by displacement ventilation system in the tropics
A.L. Grigorevski-Lima, R.G. Silva-Filho, L.F. Linhares and **R.R.R. Coelho**	1540	Occurrence of actinomycetes in indoor air in Rio de Janeiro, Brazil
E. Ghisi	1544	Potential for potable water savings by using rainwater in the residential sector of Brazil
A. Ucar and **M. Inalli**	1551	Exergoeconomic analysis and optimization of a solar-assisted heating system for residential buildings
E. Palaneeswaran, T. Ng and **M. Kumaraswamy**	1557	Client satisfaction and quality management systems in contractor organizations
E. Wurtz, L. Mora and **C. Inard**	1571	An equation-based simulation environment to investigate fast building simulation
E.A.L. Teo and **F.Y.Y. Ling**	1584	Developing a model to measure the effectiveness of safety management systems of construction sites
J. Virta, S. Koponen and **I. Absetz**	1593	Modelling moisture distribution in wooden cladding board as a result of short-term single-sided water soaking
T.-S. Shen	1600	Identifying the target spaces for building evacuation
Technical Note		
M. Durand	1607	Indoor air pollution caused by geothermal gases

NUMBER 12

E. Ghisi and **J.A. Tinker**	1611	Evaluating the potential for energy savings on lighting by integrating fibre optics in buildings
L.H. Hu, Y.Z. Li, R. Huo, L. Yi and **W.K. Chow**	1622	Full-scale experimental studies on mechanical smoke exhaust efficiency in an underground corridor
J. Stewart and **Z. Ren**	1631	COwZ—A subzonal indoor airflow, temperature and contaminant dispersion model

V.W.Y. Tam and **C.M. Tam**	1649	Evaluations of existing waste recycling methods: A Hong Kong study
K.W.D. Cheong, W.J. Yu, R. Kosonen, K.W. Tham and **S.C. Sekhar**	1661	Assessment of thermal environment using a thermal manikin in a field environment chamber served by displacement ventilation system
G. Elkiran and **M. Ergil**	1671	The assessment of a water budget of North Cyprus
C. Isaksson and **F. Karlsson**	1678	Indoor climate in low-energy houses—an interdisciplinary investigation
S. Zhu, S. Kato and **J.-H. Yang**	1691	Study on transport characteristics of saliva droplets produced by coughing in a calm indoor environment
D. Mumovic, J.M. Crowther and **Z. Stevanovic**	1703	Integrated air quality modelling for a designated air quality management area in Glasgow
Á. Gulyás, J. Unger and **A. Matzarakis**	1713	Assessment of the microclimatic and human comfort conditions in a complex urban environment: Modelling and measurements
F.W. Yu and **K.T. Chan**	1723	An alternative approach for the performance rating of air-cooled chillers used in air-conditioned buildings
A.S. Muhaisen	1731	Shading simulation of the courtyard form in different climatic regions
U.T. Aksoy and **M. Inalli**	1742	Impacts of some building passive design parameters on heating demand for a cold region
V. Haslavsky, J. Tanny and **M. Teitel**	1755	Interaction between the mixing and displacement modes in a naturally ventilated enclosure
S. Yildiz, E.D. Gezer and **U.C. Yildiz**	1762	Mechanical and chemical behavior of spruce wood modified by heat
M.A. Medina and **B. Young**	1767	A perspective on the effect of climate and local environmental variables on the performance of attic radiant barriers in the United States
T. Kavas	1779	Use of boron waste as a fluxing agent in production of red mud brick
H. Manz, P. Loutzenhiser, T. Frank, P.A. Strachan, R. Bundi and **G. Maxwell**	1784	Series of experiments for empirical validation of solar gain modeling in building energy simulation codes—Experimental setup, test cell characterization, specifications and uncertainty analysis
B. Blocken and **J. Carmeliet**	1798	On the accuracy of wind-driven rain measurements on buildings
M.I. Sarró, A.M. García, V.M. Rivalta, D.A. Moreno and **I. Arroyo**	1811	Biodeterioration of the Lions Fountain at the Alhambra Palace, Granada (Spain)
S. Sharples and **N. Chilengwe**	1821	Performance of ventilator components for natural ventilation applications
W.L. Lee and **J. Burnett**	1831	Customization of GBTool in Hong Kong
S. Costanzo, A. Cusumano, C. Giaconia and **G. Giaconia**	1847	Preservation of the artistic heritage within the seat of the Chancellorship of the University of Palermo A proposal on a methodology regarding an environmental investigation according to Italian Standards
J.P. Rydock	1860	A look at driving rain intensities at five cities

A. Turk and **M.E. Celebi**	1867	Research, protection and restoration studies on the historical fabric of Isparta, using Aya Baniya Church as an example
M.C. Swinton, W. Maref, M.T. Bomberg, M.K. Kumaran and **N. Normandin**	1872	In situ performance evaluation of spray polyurethane foam in the exterior insulation basement system (EIBS)
M.M. Gouda, S. Danaher and **C.P. Underwood**	1881	Quasi-adaptive fuzzy heating control of solar buildings
M.L. Parra-Saldivar and **W. Batty**	1892	Thermal behaviour of adobe constructions
D.-K. Kim	1905	The natural environment control system of Korean traditional architecture: Comparison with Korean contemporary architecture
H.-G. Kwak and **J.-K. Kim**	1913	Determination of efficient shoring system in RC frame structures
A.P.C. Chan, D.W.M. Chan, L.C.N. Fan, P.T.I. Lam and **J.F.Y. Yeung**	1924	Partnering for construction excellence—A reality or myth?
E.N.B.S. Júlio, F.A.B. Branco, V.D. Silva and **J.F. Lourenço**	1934	Influence of added concrete compressive strength on adhesion to an existing concrete substrate
E.W.L. Cheng, Y.H. Chiang and **B.S. Tang**	1940	Exploring the economic impact of construction pollution by disaggregating the construction sector of the input–output table
S. Toker and **A.İ. Ünay**	1952	Re-characterization of architectural style of reinforced concrete building facades by exterior seismic strengthening
A. Saari, T. Tissari, E. Valkama and **O. Seppänen**	1961	The effect of a redesigned floor plan, occupant density and the quality of indoor climate on the cost of space, productivity and sick leave in an office building–A case study
F.K.T. Cheung and **M. Skitmore**	1973	Application of cross validation techniques for modelling construction costs during the very early design stage
	I	Volume Contents and Author Index for Vol. 41; 2006